PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 030048095WO		FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.					
International application No. PCT/US03/26403		International filing date (day/month/year) 20 AUGUST 2003 (20.08.2003)		(Earliest) Priority Date (day/month/year)				
Applicant THE BOEING COMPANY								
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report.								
Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.								
the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:								
		al application in written form.						
l H	filed together with the international application in computer readable form. furnished subsequently to this Authority in written form.							
	• •	his Authority in computer readable	form.					
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in t								
international application as filed has been furnished. the statement that the information recorded in computer readable form is identical to the written sequence listing been furnished.								
2.	Certain claims were found	d unsearchable (See Box I).	•	· ·				
3.	Unity of invention is lacki	ing (See Box II).						
4. With regard to the title,								
	the text is approved as sub-	• • • • • • • • • • • • • • • • • • • •		·				
	the text has been established	d by this Authority to read as follo	ws:					
5. With regard to the abstract,								
	the text is approved as submitted by the applicant.							
	the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.							
6. The figure of the drawings to be p		ublished with the abstract is Figure No. 5						
	as suggested by the applica	ant.		None of the figures				
	because the applicant faile	d to suggest a figure.						

Form PCT/ISA/210 (first sheet) (July 1998)

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International application No.

PCT/US03/26403

Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

Methods and systems for detecting icing or incipient icing conditions external to a vehicle (100) are disclosed. An apparatus in accordance with one embodiment of the invention includes a temperature sensor (120) configured to direct a first signal corresponding to a temperature of an airstream, and a water content sensor (130) configured to direct a second signal corresponding to a water content of the airstream. A processing unit (140) can receive the first and second signals and, based on at least the first and second signals, provide an indication (150) when at least the first and second signals taken together correspond to an at least incipient icing condition. Accordingly, the system can be installed on aircraft to provide notice to the crew of incipient or existing icing conditions.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/26403

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A. CLASSIFICATION OF SUBJECT MATTER							
IPC(7) : G08B 21/00, 19/02; G01W 1/00							
US CL	US CL : 340/962, 945, 580, 581; 73/170.26, 170.17						
According to International Patent Classification (IPC) or to both national classification and IPC							
B. FIELDS SEARCHED							
Minimum do	cumentation searched (classification system followed	by classification sym	ibols)				
	40/962, 945, 580, 581; 73/170.26, 170.17	•					
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	UMENTS CONSIDERED TO BE RELEVANT			Delement to eleien No.			
Category *	Citation of document, with indication, where ap			Relevant to claim No.			
Y	US 5,874,672 A (GERARDI et al) 23 February 199	9, col. 5, lines 19-29	; coi. o, lines 39-	1-26			
v	50; and col. 14, lines 50-52. US 6,140,942 A (BRAGG et al) 31 October 2000, c	ol: 1 lines 52 60:	al 3 lines 5-19	1-26			
Y	05 0,140,542 A (BRAGG et al) 31 October 2000, c	u. 1, 11168 32-00; CC	л. э, шкэ э-10.	1-20			
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Further	r documents are listed in the continuation of Box C.	See naten	t family annex:				
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• S	pecial categories of cited documents:		sent published after the in e and not in conflict with	the application but cited to			
	t defining the general state of the art which is not considered to	understand	the principle or theory u	derlying the invention			
•	ticular relevance	"X" document of	of particular relevance; the	e claimed invention cannot be			
	pplication or patent published on or after the international filing	considered	novel or cannot be considered along the document is taken along the considered and the considered are considered as a considered as a considered are considered are considered are conside	lered to involve an inventive			
date							
	it which may throw doubts on priority claim(s) or which is cited ish the publication date of another citation or other special reason		of particular relevance; the to involve an inventive s	e claimed invention cannot be			
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"O" documen	it referring to an oral disclosure, use, exhibition or other means	combinatio	n being obvious to a pers	on skilled in the art			
		"&" document r	nember of the same paten	t family			
Date of the actual completion of the international search Date of mailing of the international search report							
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17 August 2004 (17.08.2004) Name and mailing address of the ISA/US Authorized officer							
Name and mailing address of the ISA/US Mail Stop PCT, Atm: ISA/US Authorized officer Authorized officer							
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Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230 Telephone No. 703-308-6252							
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INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 3:

EAST

Search term: detecting icing, aircraft, temperature sensor, water content sensor, pressure sensor, indicator, display.

Form PCT/ISA/210 (second sheet) (July 1998)